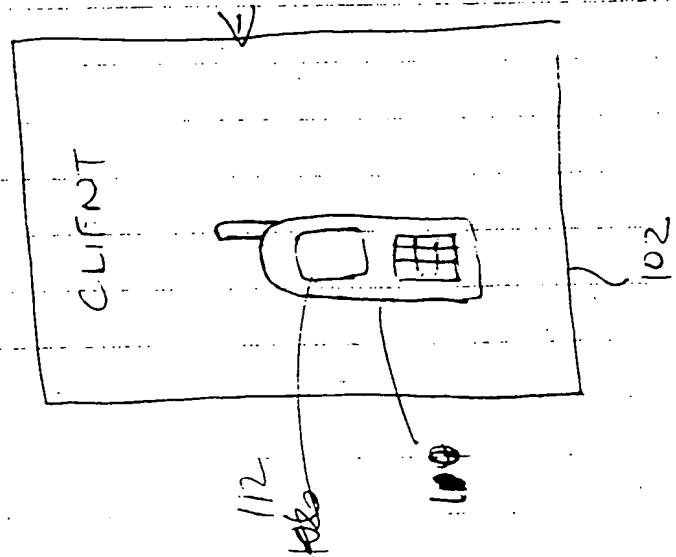


figure 1



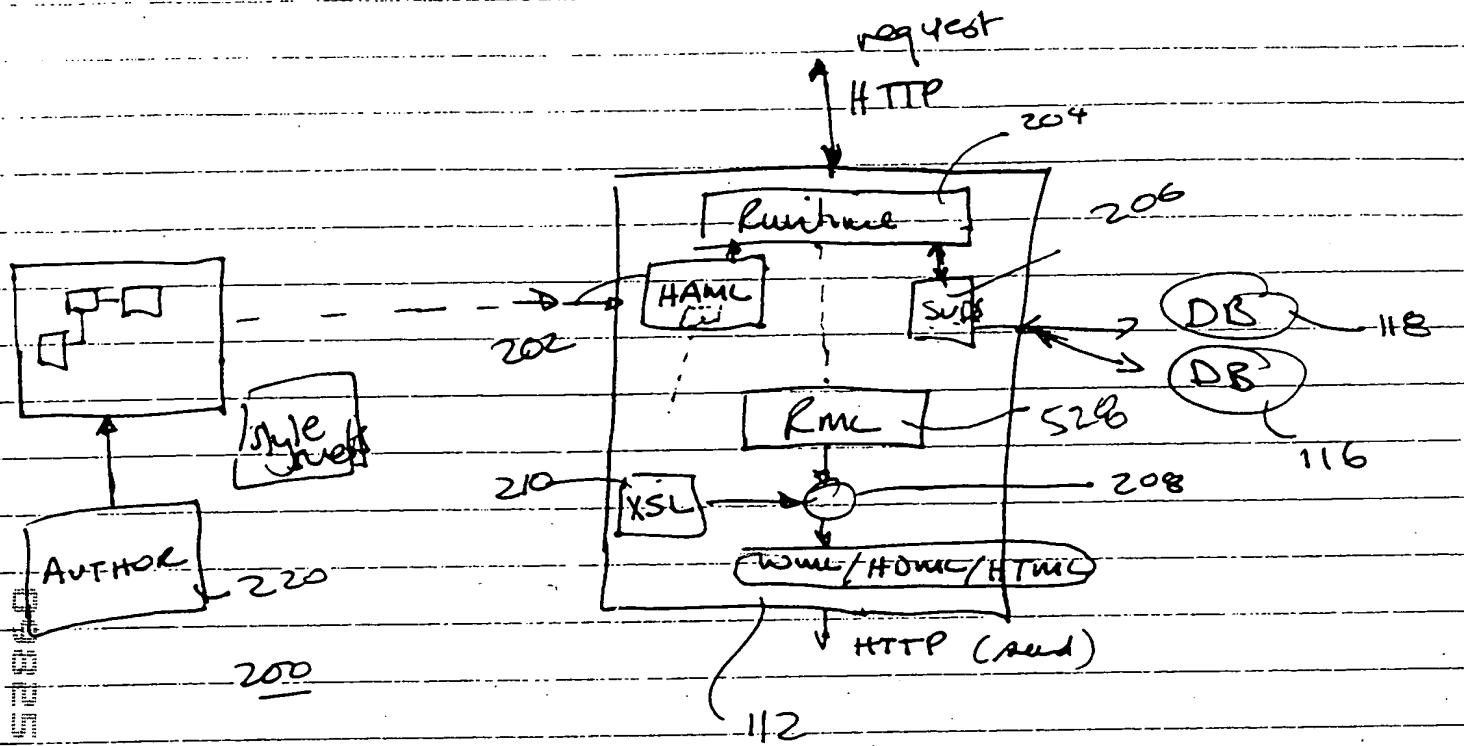


Figure 2

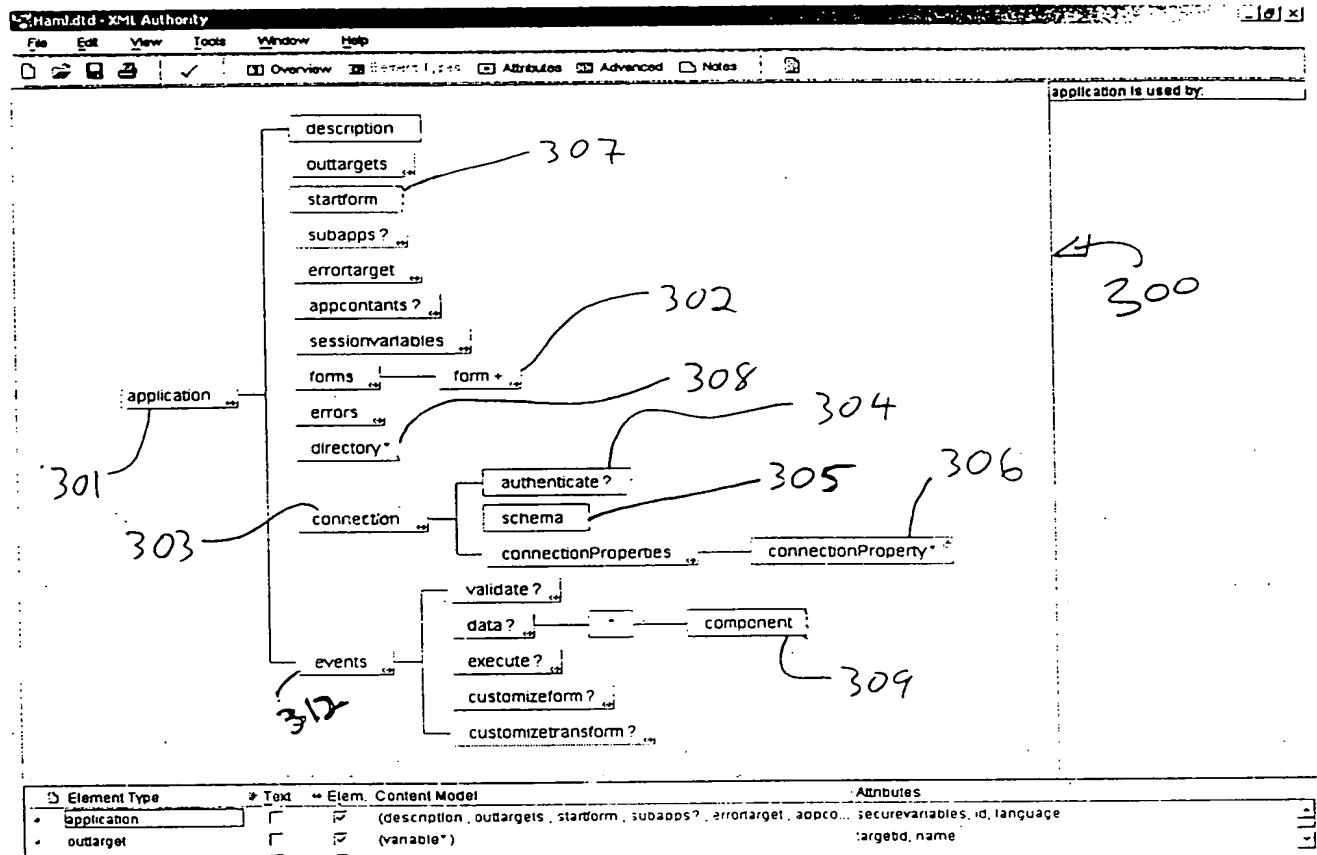


Figure 3

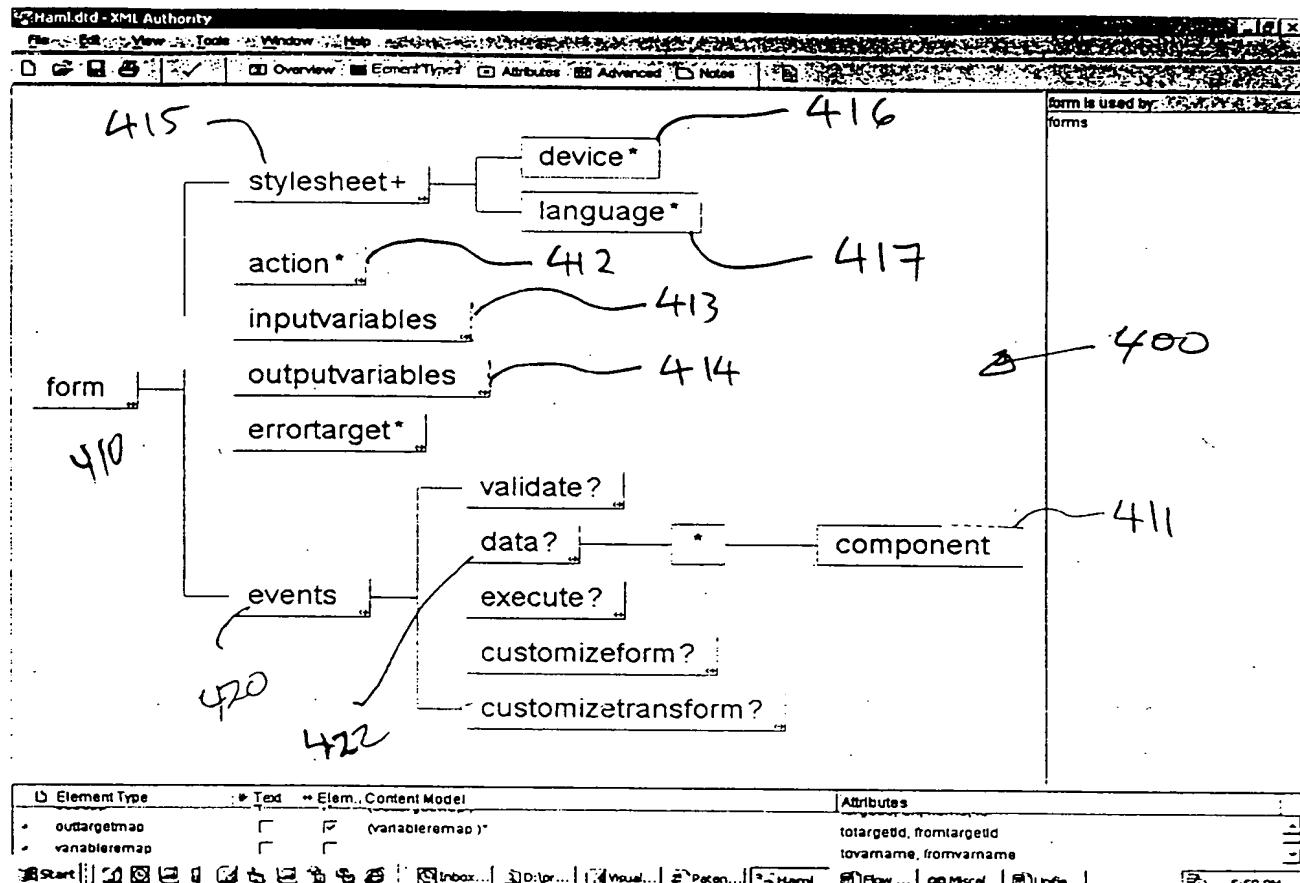


Figure 4

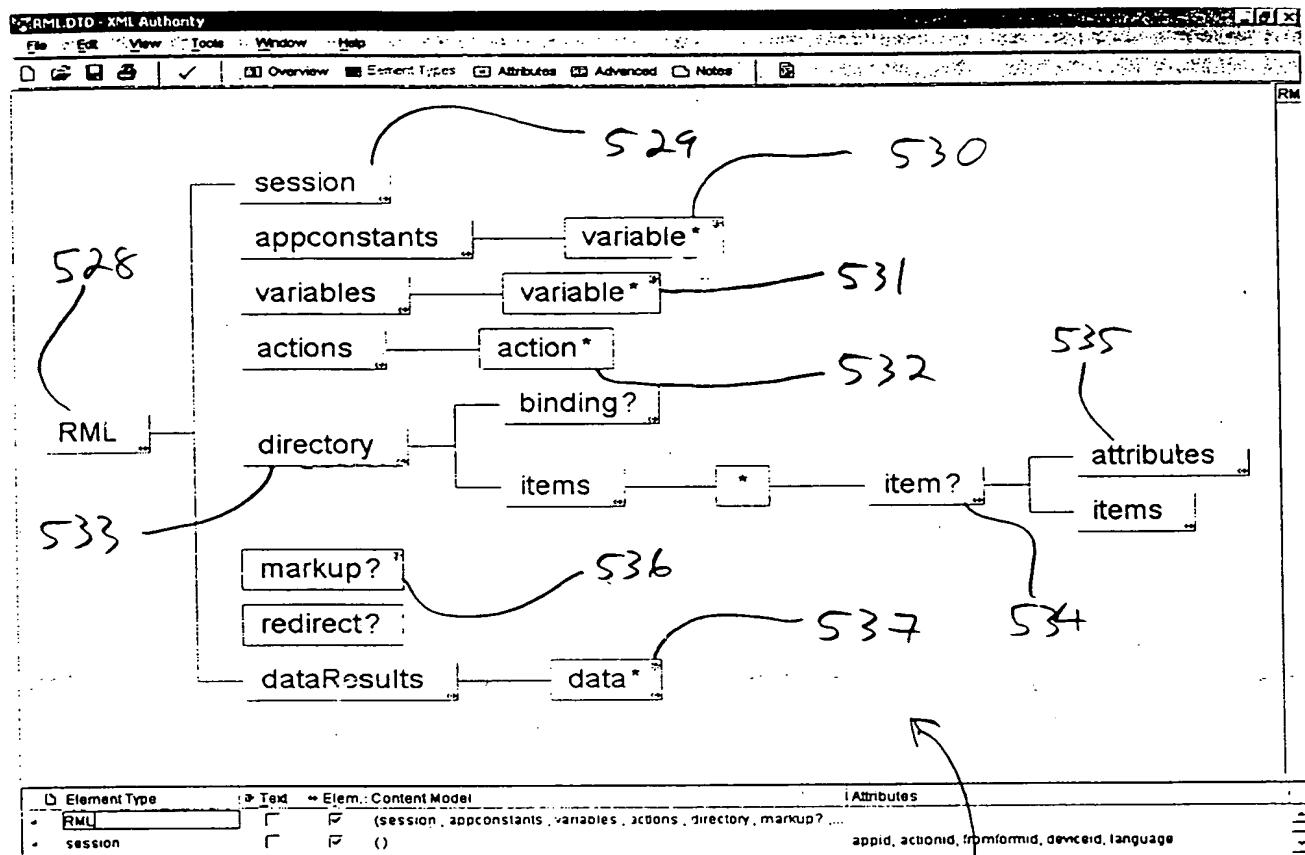


Figure 5

50

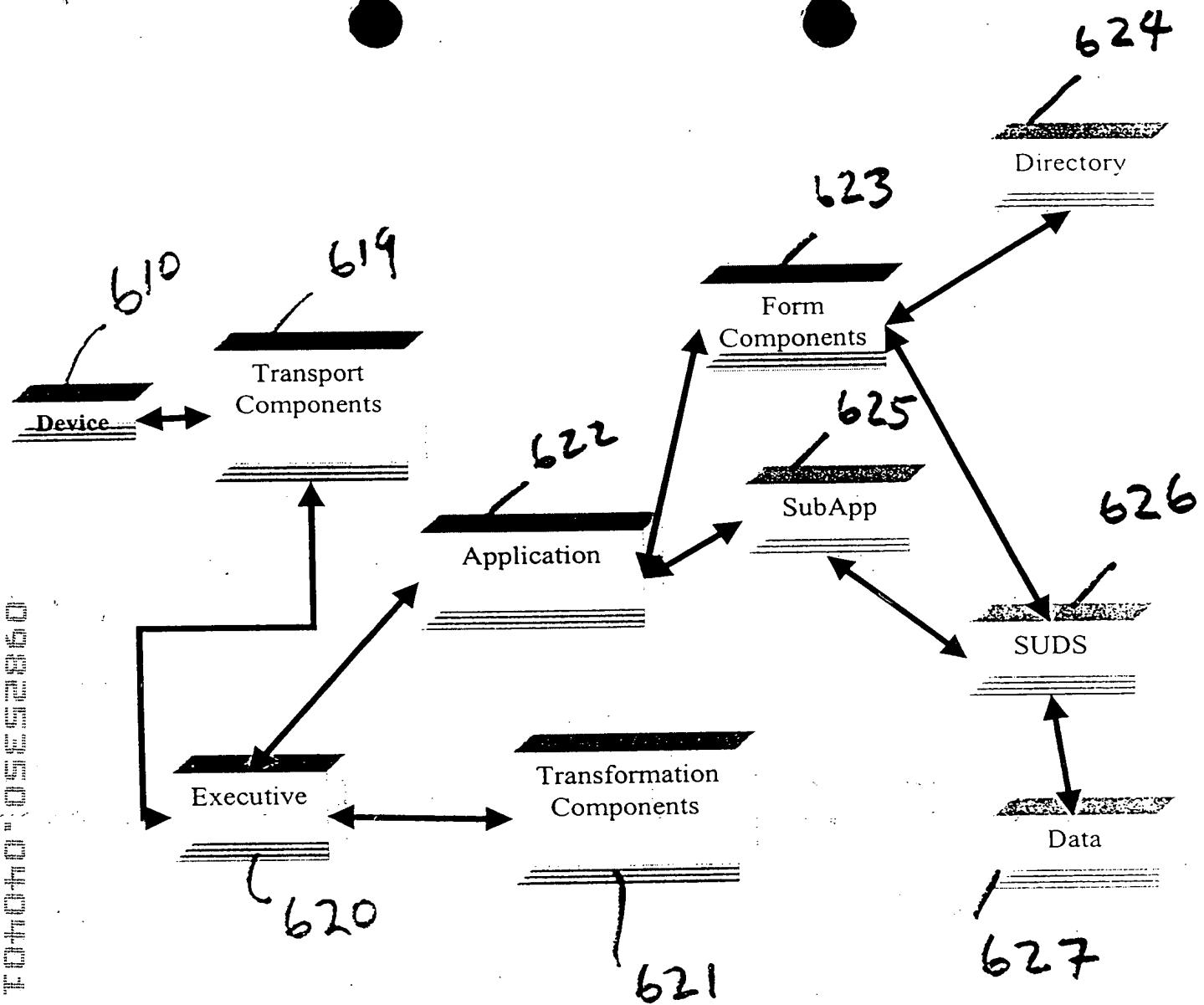


Fig 6

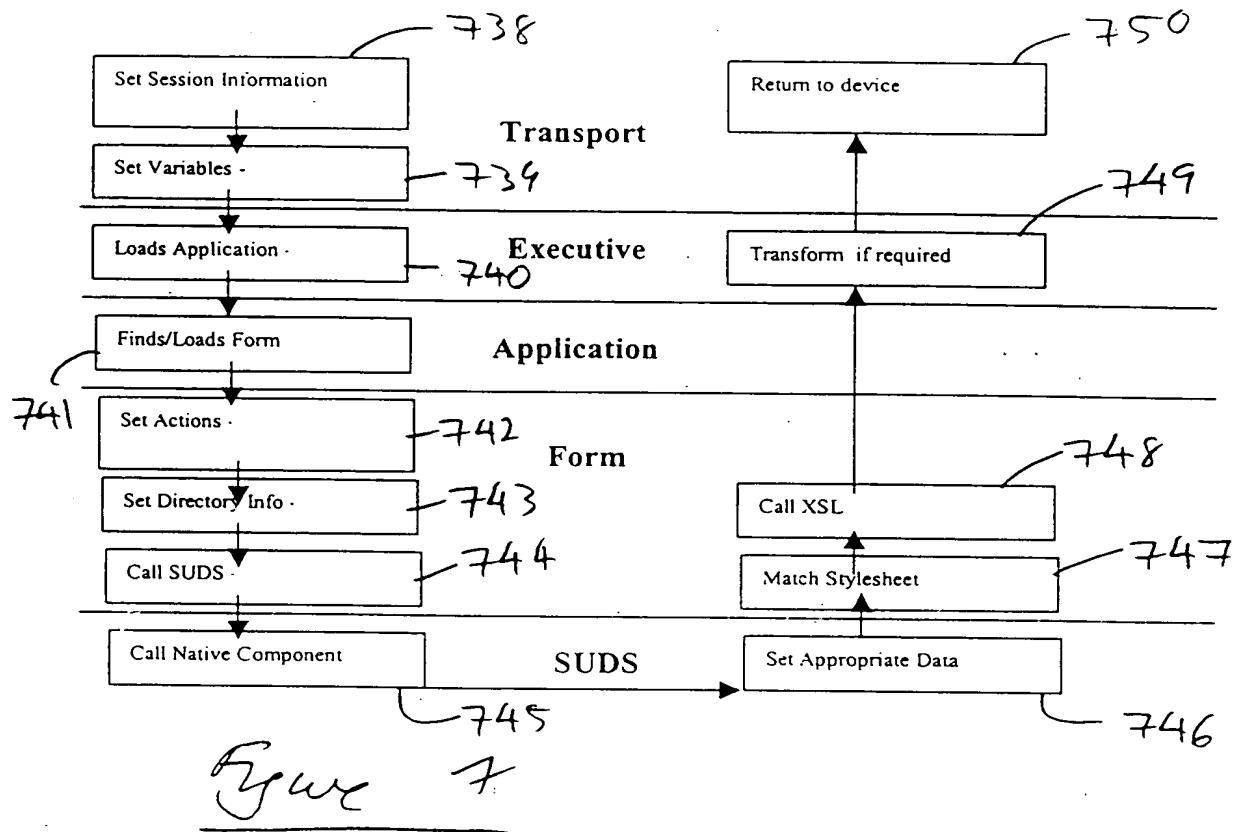


Figure 7

ORGANIZED "ORGANIZED"

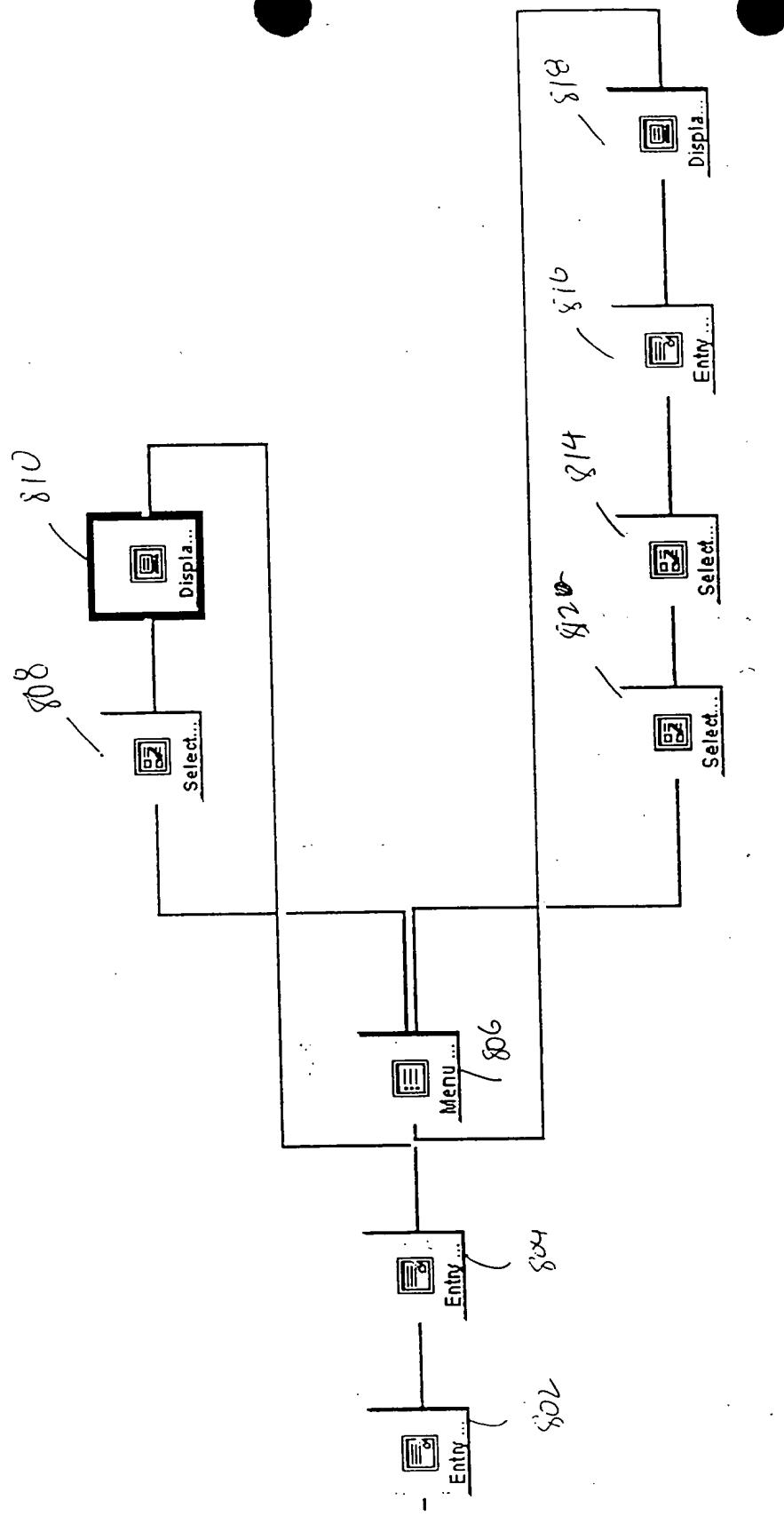


Figure 8(a)

```
<?xml version="1.0" encoding="UTF-8" ?>
- <application usecookies="false" id="{F6681A6F-FB7C-4901-855C-08791DDE8DC8}"
  securevariables="false">
  <description version="1" name="MQBanking" />
  <outtargets />
  <startform totargetid="UserID" />
  <subapps />
  <errortarget totargetid="UserID" />
- <properties>
  <variable default="209.23.23.23" name="ServerIP" />
</properties>
- <sessionvariables>
  <variable name="Session" />
</sessionvariables>
- <forms>
- <form targetid="UserID" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Password" name="OK" />
  <inputvariables />
- <outputvariables>
  <variable name="UserID" />
</outputvariables>
  <events />
</form>
- <form targetid="Password" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Main" name="OK" />
- <inputvariables>
  <variable name="UserID" />
</inputvariables>
- <outputvariables>
  <variable name="Session" />
</outputvariables>
  <events />
</form>
- <form targetid="Main" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Account" name="Account Balance" />
  <action totargetid="Bill Payment" name="Bill Payment" />
  <action totargetid="Transfer" name="Account Transfer" />
  <inputvariables />
  <outputvariables />
  <events />
</form>
- <form targetid="Account" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Details" name="OK" />
  <inputvariables />
- <outputvariables>
  <variable name="AccountID" />
</outputvariables>
```

Fig 8(6)

```
<events />
</form>
- <form targetid="Details" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Main" name="OK" />
  - <inputvariables>
    <variable name="AccountID" />
  </inputvariables>
  <outputvariables />
  <events />
</form>
- <form targetid="Bill Payment" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Bill" name="OK" />
  <inputvariables />
  - <outputvariables>
    <variable name="AccountID" />
  </outputvariables>
  <events />
</form>
- <form targetid="Bill" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Amount" name="OK" />
  - <inputvariables>
    <variable name="AccountID" />
  </inputvariables>
  - <outputvariables>
    <variable name="BillID" />
    <variable name="AccountID" />
  </outputvariables>
  <events />
</form>
- <form targetid="Amount" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Confirm" name="OK" />
  - <inputvariables>
    <variable name="BillID" />
    <variable name="AccountID" />
  </inputvariables>
  - <outputvariables>
    <variable name="AccountID" />
    <variable name="BillID" />
    <variable name="Amount" />
  </outputvariables>
  <events />
</form>
- <form targetid="Confirm" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Main" name="Cancel" />
  - <inputvariables>
    <variable name="AccountID" />
    <variable name="BillID" />
```

Fig 8(c)

```
<variable name="Account" />
</inputvariables>
<outputvariables>
  <variable name="AccountID" />
  <variable name="BillID" />
  <variable name="Amount" />
</outputvariables>
<events />
</form>
</forms>
<errors />
<events />
</application>
```

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Fig 8(d)

```
<rml>
- <dataresults>
- <data name="source1">
- <RECORDS>
- <RECORD>
  <Blair PK="1">172-32-1176</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>White</LastName>
  <FirstName>Johnson</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">213-46-891</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Green</LastName>
  <FirstName>Marjorie</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
- <a>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
</a>
- <a>
- <b>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
</b>
</a>
</RECORDS>
```

Fig. 9 (a)

```
</data>
<data name="source2">
- <RECORDS>
- <RECORD>
<Blair PK="1">aaaaaa</Blair>
<Test1 PK="1">1</Test1>
<Test2 PK="1">2</Test2>
<Test3 PK="1">3</Test3>
<LastName>White</LastName>
<FirstName>Johnson</FirstName>
</RECORD>
- <RECORD>
<Blair PK="1">bbbbbbb</Blair>
<Test1 PK="1">1</Test1>
<Test2 PK="1">2</Test2>
<Test3 PK="1">3</Test3>
<LastName>Green</LastName>
<FirstName>Marjorie</FirstName>
</RECORD>
- <RECORD>
<Blair PK="1">cccccc</Blair>
<Test1 PK="1">1</Test1>
<Test2 PK="1">2</Test2>
<Test3 PK="1">3</Test3>
<LastName>Carson</LastName>
<FirstName>Cheryl</FirstName>
</RECORD>
- <a>
- <RECORD>
<Blair PK="1">ddddddd</Blair>
<Test1 PK="1">1</Test1>
<Test2 PK="1">2</Test2>
<Test3 PK="1">3</Test3>
<LastName>Carson</LastName>
<FirstName>Cheryl</FirstName>
</RECORD>
</a>
- <a>
- <b>
- <RECORD>
<Blair PK="1">eeeeeee</Blair>
<Test1 PK="1">1</Test1>
<Test2 PK="1">2</Test2>
<Test3 PK="1">3</Test3>
<LastName>Carson</LastName>
<FirstName>Cheryl</FirstName>
</RECORD>
</b>
</a>
</RECORDS>
</data>
</dataresults>
```

Fig. 9(b)

```
<actions>
  <action formatstring="" actionid="OK" querystring="?
    _SQRSIGN=A&_SQAPPID={B77444A1-BD9E-4248-A664-
    6C483F8B4540}&_ACTIONID=OK&_SQFORMID={8D7B4336-6341-
    4D2C-B2D8-49FE88D1B13A}&EmployeeID=$EmployeeID" />
</actions>
- <dictionary>
  <variable />
  <variable />
</dictionary>
</rml>
```

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fig(c)

09825250 - 04740

```
<xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
- <xsl:template match="/">
- <wml>
- <head>
  <meta name="FormType" content="SQSelectForm" />
  <meta name="ListMethod" content="numeric" />
</head>
- <card>
  <xsl:attribute name="title">qwe</xsl:attribute>
- <p>
  - <select>
    <xsl:attribute name="title">qwe</xsl:attribute>
    <xsl:attribute name="name">asd</xsl:attribute>
    - <xsl:for-each select="/rml/dataresults/data
      [@name='source2']//RECORD">
      - <option>
        - <xsl:attribute name="value">
          <xsl:value-of select="Blair" />
          z1z
          <xsl:value-of select="Test1" />
          z1z
          <xsl:value-of select="Test2" />
          z1z
          <xsl:value-of select="Test3" />
        </xsl:attribute>
      - <xsl:attribute name="title">
        <xsl:value-of select="LastName" />
        ,
        <xsl:value-of select="FirstName" />
        ,
        <xsl:value-of select="/rml/data
          [@name='source1']/RECORDS/RECORD/Blair" />
      </xsl:attribute>
      blah blah blah
    </option>
  </xsl:for-each>
</select>
</p>
- <xsl:for-each select="/rml/actions//action">
  - <do>
    <xsl:attribute name="type">accept</xsl:attribute>
    - <xsl:attribute name="label">
      <xsl:value-of select="@actionid" />
    </xsl:attribute>
  - <go>
    - <xsl:attribute name="href">
      <xsl:value-of select="@querystring" />
    </xsl:attribute>
  </go>
</do>
</xsl:for-each>
</card>
```

Fig 10(a)

```
</wml>  
</xsl:template>  
</xsl:stylesheet>
```

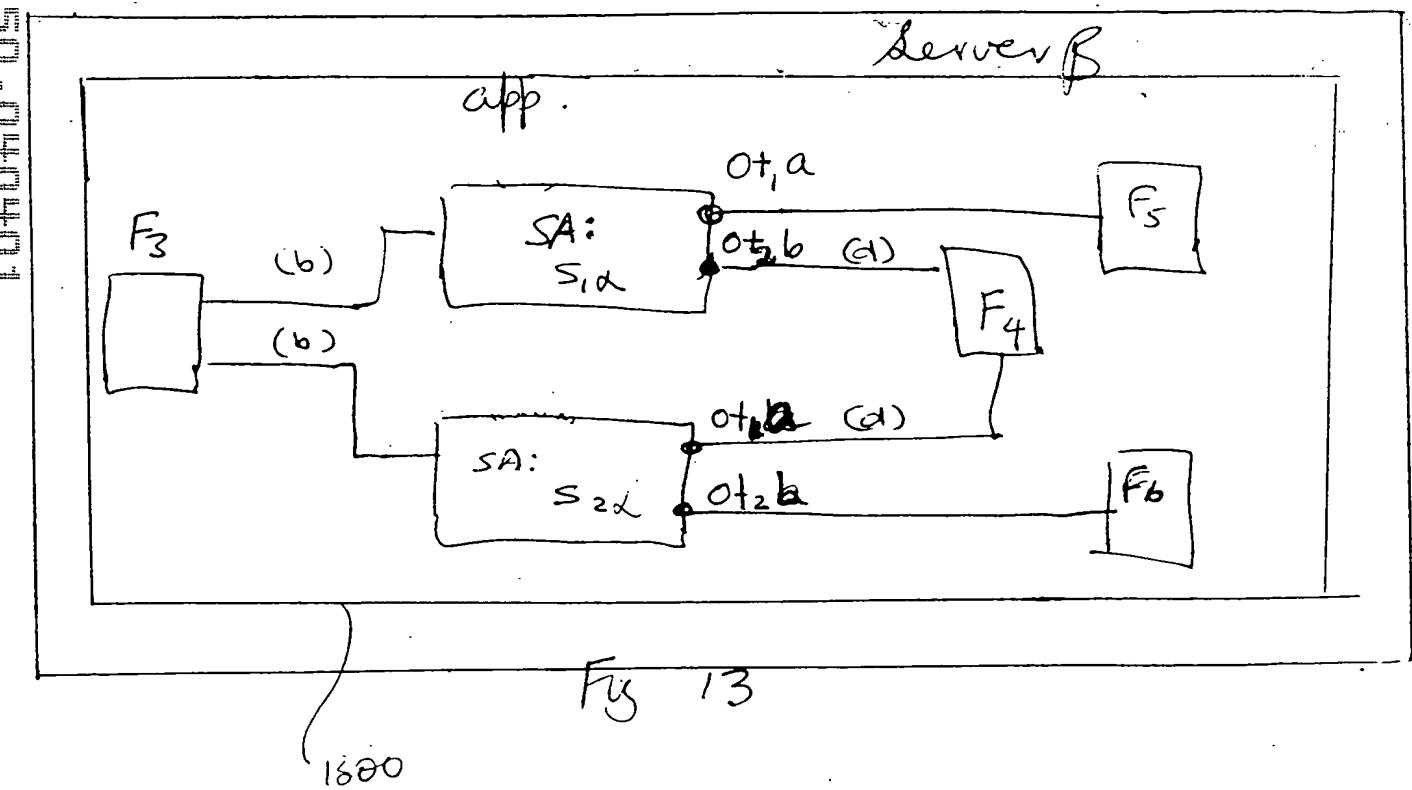
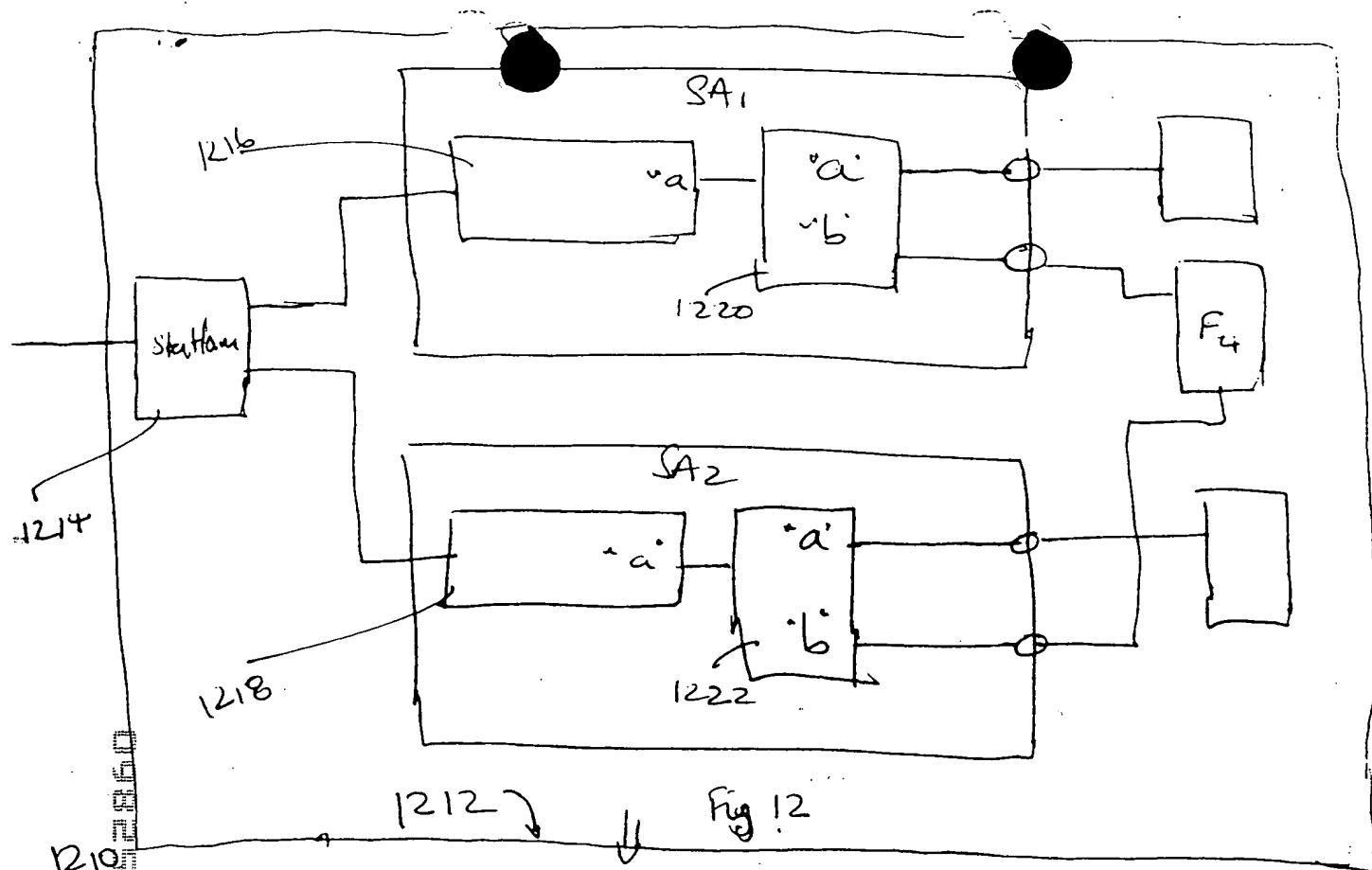
09325350 - 040401

Fig 10(b)

```
<wml>
- <head>
  <meta name="FormType" content="SQSelectForm" />
  <meta name="ListMethod" content="numeric" />
</head>
- <card title="Select Account">
  - <p>
    - <select title="Select Account" name="HoldingsAccountID">
      <option value="1" title="Acct 10314">Acct 10314</option>
      <option value="2" title="Acct 11345">Acct 11345</option>
    </select>
    <br />
  </p>
  - <do type="accept" label="OK">
    <go href="?_SQRSIGN=A&_SQAPPID={8D360BDF-E570-45E9-BEC1-4E5DD949C5C0}&_ACTIONID=OK&_SQFORMID={BCC091A1-63D4-11D3-9E34-0090273EFC3B}&HoldingsAccountID=$(HoldingsAccountID)&UserID=246531&Session=1" />
  </do>
</card>
</wml>
```

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Fig. 11



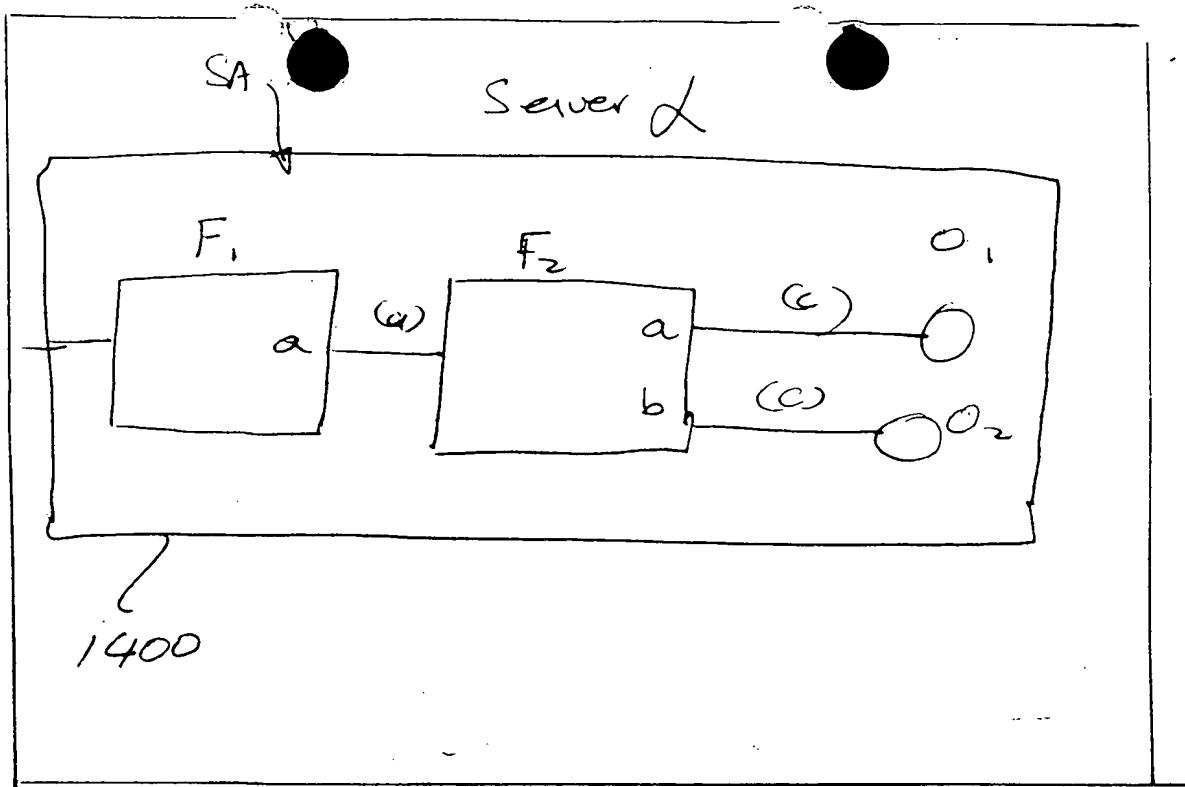


Figure 14.

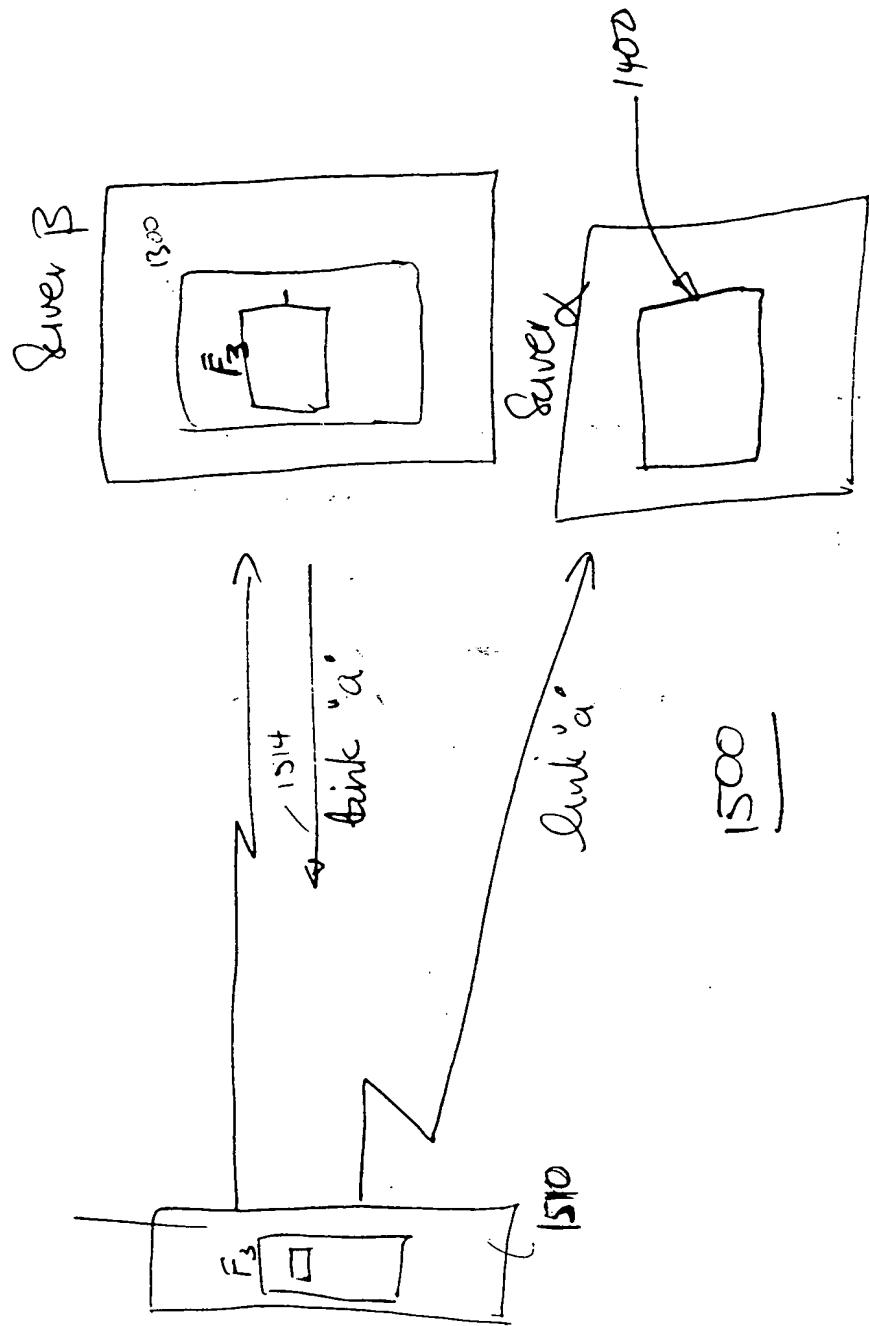


Fig 15

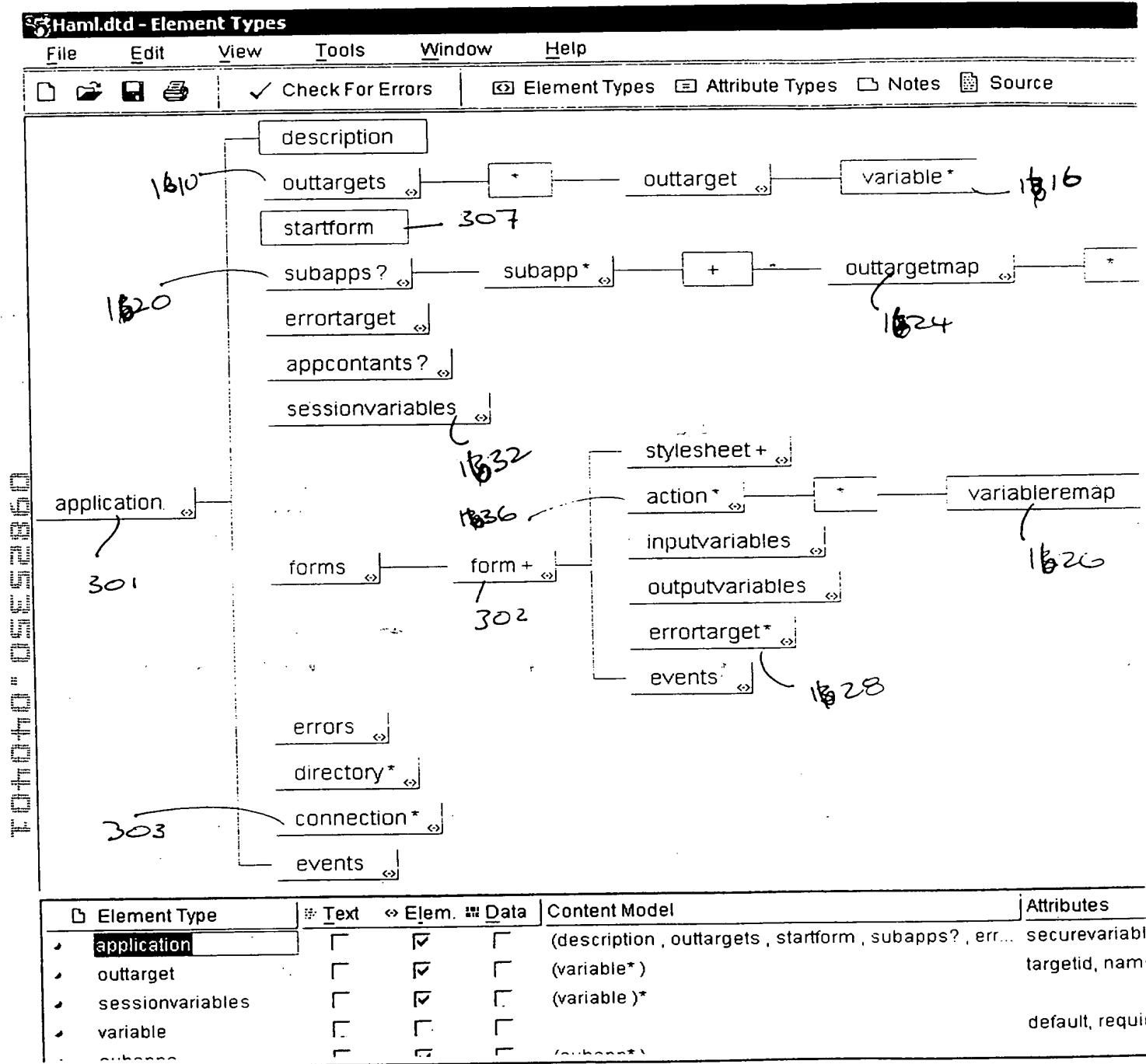


Figure 1.b

Receive request

- Determine request signature
 - app
 - targetid
 - language
 - markup
- Add to Runtime XML (RML)
 - Request signature
 - Dictionary element containing the Name/value pairs from request
- Load app
- Pass RML to app
- Process app
 - Find targetid?
 - Subapp
 - Load subapp
 - Pass RML to app
 - Process app
 - Form
 - Generate Action urls and add them to the RML
 - If no cookies
 - Include all variables
 - Remap to new names as described in HAML
 - Find a StyleSheet that matches the language and markup requested
 - Process Stylesheet
- If cookies are on and the device supports cookies
 - Build cookie creation instructions for:
 - Out variables in the RML
 - Remap to new names as described in HAML
 - Session variables in the RML
 - Remap to new names as described in HAML
- Return generated markup

Fig 17